Number of Module	Name of Module	Lecturer
VW-ATL-32b	Cargo Handling and Intermodal Transportation	Dr. Henning Preis henning.preis@tu-dresden.de
Qualification Aim	Students have mastered the fundamental principles, models, and methods for planning and optimizing transshipment and warehousing systems, as well as intermodal and multimodal freight transport systems. They are able to calculate characteristic system parameters and develop alternative system designs. They are proficient in models for network planning, mode of transport selection, and the optimization of shipment routes, and can apply these to enhance the attractiveness of multimodal transport.	
Content	Contents of the module are – Technical design of transshipment and storage systems, – Operating parameters of conveyor systems and transshipment equipment, – Order-picking systems and strategies, – Layout, resource planning, and gate allocation for transshipment terminals, – Processes, stakeholders, and challenges in multimodal transportation, – Network planning and enhancing the attractiveness of loading points, – Design of loading units and load securing, and – Container transport, intermodal transport systems.	
Teaching and Learning Methods	2 SWS lecture, 2 SWS tutorial, and independent study.	
Requirements for Participation	The competencies to be acquired in the modules Material Flow Analysis and Optimization and Decision Making in Enterprise Logistics are assumed.	
Usability	This module is one of 27 elective modules in the master's degree program Air Transport and Logistics, which must be chosen according to § 32 paragraph 3 of the examination regulations.	
Requirements for the Award of Credits	Credit points are earned when the module examination is passed. The module examination consists of a portfolio of 25 hours. The examination language of the complex examination is English.	
Credit Points and Grades	5 credit points can be acquired through the module. The module grade corresponds to the grade of the examination performance.	
Frequency of Module	The module is offered each academic year in the winter semester.	
Workload	The total workload is 150 hours.	
Duration of the Module	The module lasts one semester.	